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**Notice of Allowability**

Application No.

10/664,311

Examiner

Henry K. Choe

Applicant(s)

ZHANG ET AL.

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 11/28/05.
2. ☒ The allowed claim(s) is/are 2-9, 11-16, 22-35 and 37-40.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
HENRY CHOE  
PRIMARY EXAMINER

## **DETAILED ACTION**

### ***Reasons for Allowance***

Claims 2-9, 11-16, 22-35, 37-40 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding claims 2, 6 and 13, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: one controlled resistive element coupled between the lower output transistor and ground and its functional limitations. Regarding claim 4, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: one controlled resistive element coupled between the upper output transistor and a supply voltage and its functional limitations. Regarding claims 7 and 14, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: the functional limitations of the one output sense element. Regarding claim 9, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: one of a pull down resistor coupled between the output voltage and a negative supply voltage and a pull up resistor coupled between the output voltage and a positive supply voltage. Regarding claim 11, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: one controlled resistive element comprising a transistor having an output terminal coupled to an input terminal of the lower output transistor and its functional limitations. Regarding claim 12, the closest prior art of record, Butler (Fig. 1) does not disclose the following limitations: one controlled resistive element comprising a transistor having an output terminal coupled to an input terminal of the upper output transistor and its functional limitations. Regarding claim 16, the closest prior art of record, Butler (Fig. 1) does not


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disclose the following limitations: one of a pull down resistor coupled between the output voltage and a negative supply voltage and a pull up resistor coupled between the output voltage and a positive supply voltage. Regarding claims 22, 25, 31 and 39, the closest prior art of record, Takehara (Fig. 2) does not disclose the following limitations: the functional limitations of the output sense element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.



HENRY CHOE  
PRIMARY EXAMINER